



Gulf of Mexico Harmful Algal Bloom Bulletin

1 August 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

Last bulletin: July 28, 2005

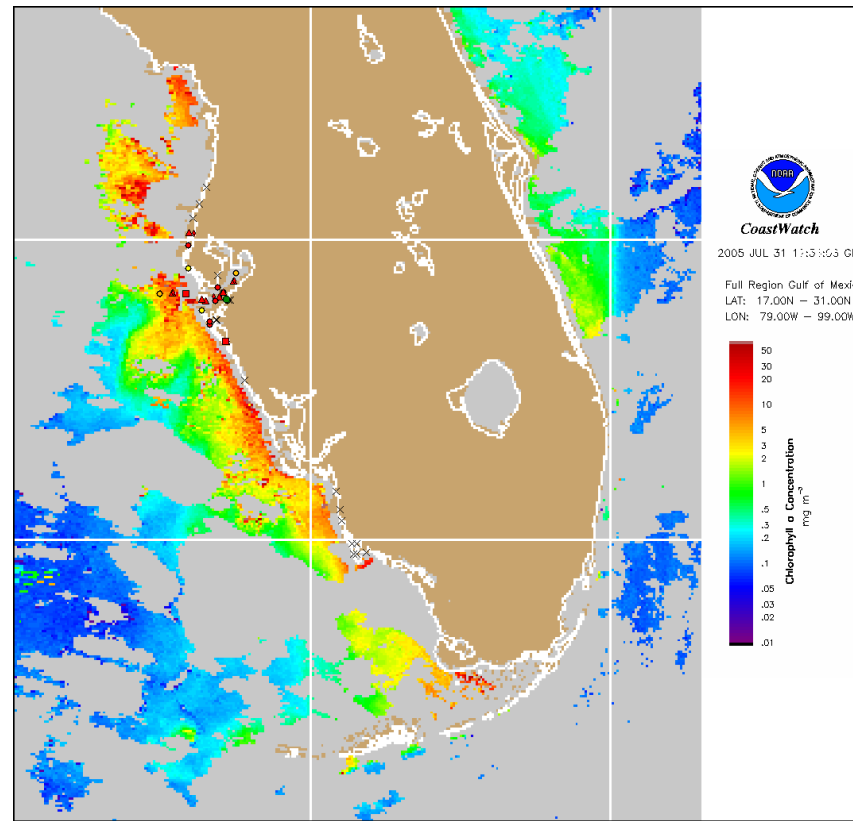
Conditions: A harmful algal bloom has been identified from northern Pinellas to northern Sarasota County. Very low impacts are possible in Pinellas and Manatee Counties through Tuesday, with patchy low impacts possible Wednesday and Thursday. Patchy low impacts possible in northern Sarasota County through Tuesday, with patchy moderate impacts possible Wednesday and Thursday.

Analysis: The harmful algal bloom persists alongshore and in the bay systems from Pinellas County to Northern Sarasota County. Medium cell counts of *Karenia brevis* were reported on July 25-26 from Clearwater to Longboat Pass, including Tampa Bay as far north as the Skyway Pier. High counts were reported in Tampa Bay channel and inside Sarasota Bay at New Pass. The northernmost extent of the bloom lies offshore of Pasco and Hernando Counties. Minimal northern expansion of the northern edge (approximately 15-20 km) has occurred since the last bulletin. The northernmost extent of the bloom lies at approximately 28°36'N, although the exact extent has been slightly obscured by clouds in recent satellite imagery. Very high chlorophyll levels ($>30\mu\text{g/L}$) were detected near 28°20'N 83°9'W, 30 miles offshore Hernando Beach. One very low cell count was reported on July 27, approximately 5-10 miles west of Hernando County. No beach impacts will be experienced from Pasco to Citrus Counties at this point, but fish kills and discolored water may be reported offshore. No *Karenia brevis* detected in samples from Charlotte to Monroe Counties. There is a band of elevated chlorophyll along the coast from Pinellas to Lee County, due to resuspension. Discolored water may be reported.

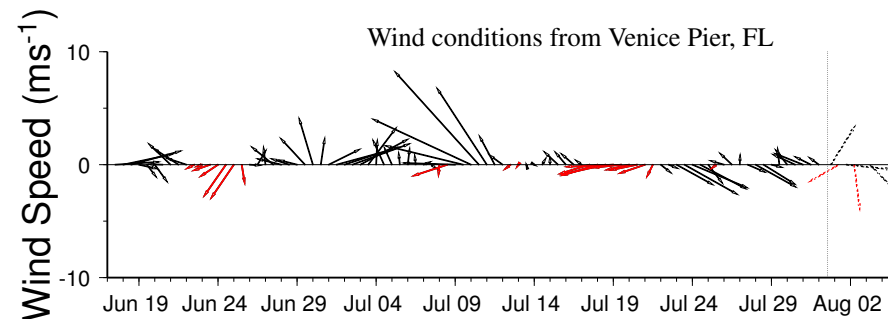
-Stolz and Fenstermacher

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

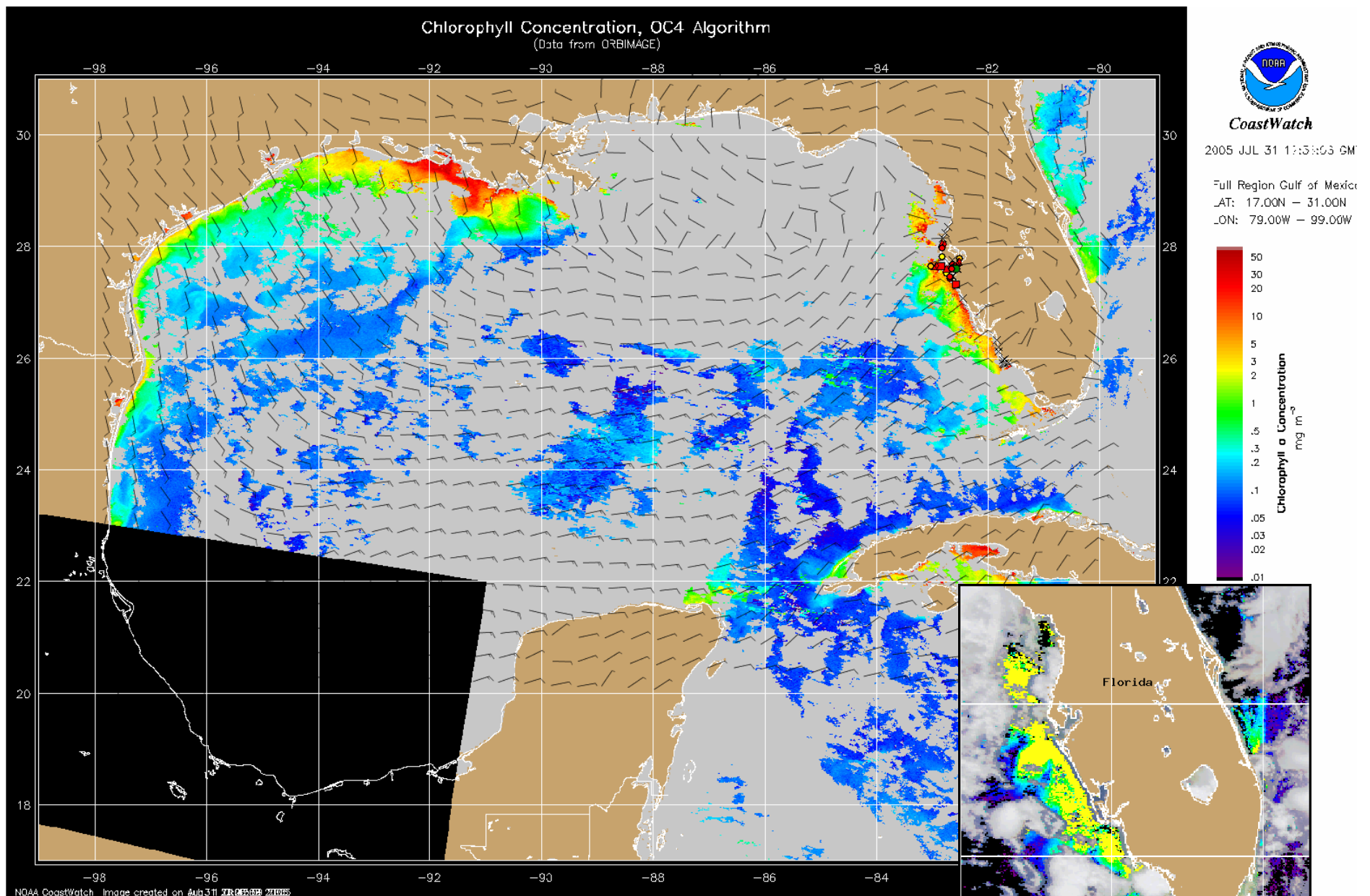


Chlorophyll concentration from satellite with HAB areas shown by red polygon(s). Cell concentration sampling data from July 22, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Winds primarily southeasterly at 5-10 knots (3-5 m/s) through tomorrow, variable in the afternoons. Variable winds from Tuesday night through Thursday.



Chlorophyll concentration from satellite and forecast winds for August 2, 2005 06Z with cell concentration sampling data from July 22, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Blooms shown in red (see p. 1 analysis)

